IFW

CERTIFICATE OF MAILING UNDER 37 C.F.R. §1.8

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail, with sufficient postage, in an envelope addressed to: Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450, on the below date:

Date: September 9, 2004 Name: Peter Brunovskis Signature: Peter Brunovskis

BRINKS HOFER GILSON & LIONE

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Appln. of:	Ismagilov et al.	
Appln. No.:	10/765,718	Examiner: TBA
Filed:	January 26, 2004	Art Unit: 1765
For:	DEVICE AND METHOD FOR PRESSURE-DRIVEN PLUG TRANSPORT AND REACTION	
Attorney Docket No:	7814/95	

Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

TRANSMITTAL

Sir: **Attached is/are**:

☒ Transmittal Letter (in dup.); Information Disclosure Statement; Form PTO-1449

☒ Return Receipt Postcard

Fee calculation:

☒ No additional fee is required.

☐ Small Entity.

☐ An extension fee in an amount of $_____ for a _____-month extension of time under 37 C.F.R. § 1.136(a).

☐ A petition or processing fee in an amount of $_____ under 37 C.F.R. § 1.17(_____).

☐ An additional filing fee has been calculated as shown below:

	Claims Remaining After Amendment		Highest No. Previously Paid For	Present Extra		Small Entity Rate	Small Entity Add'l Fee	or	Not a Small Entity Rate	Not a Small Entity Add'l Fee
Total		Minus				x $9=			x $18=	
Indep.		Minus				x 43=			x $86=	
First Presentation of Multiple Dep. Claim						+$145=			+ $290=	
						Total	$		Total	$

Fee payment:

☐ A check in the amount of $_____ is enclosed.

☐ Please charge Deposit Account No. 23-1925 in the amount of $. A copy of this Transmittal is enclosed for this purpose.

☒ The Director is hereby authorized to charge payment of any additional filing fees required under 37 CFR § 1.16 and any patent application processing fees under 37 CFR § 1.17 associated with this paper (including any extension fee required to ensure that this paper is timely filed), or to credit any overpayment, to Deposit Account No. 23-1925.

Respectfully submitted,

9/9/04
Date

Peter Brunovskis
Peter Brunovskis, Ph.D. (Reg. No. 52,441)
Agent For Applicants

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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INFORMATION DISCLOSURE STATEMENT

In accordance with the duty of disclosure under 37 C.F.R. §1.56 and §§1.97-1.98, and more particularly in accordance with 37 C.F.R. §1.97(b), Applicants hereby cite the following reference(s):

U.S. PATENT DOCUMENTS

DOCUMENT NUMBER Number-Kind Code (if known)	DATE	NAME
2003/0061687 A1	4/3/03	Hansen et al.

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER Number-Kind Code (if known)	DATE	COUNTRY
EP 0 912 238 B1	10/10/01	Europe
WO 84/02000	5/24/84	WIPO
WO 01/12327 A1	2/22/01	WIPO
WO 02/23163 A1	3/21/02	WIPO
WO 01/64332 A1	9/7/2001	WIPO

OTHER ART – NON PATENT LITERATURE DOCUMENTS

1. Anna, Shelley A. et al., "Formation of Dispersions Using 'Flow Focusing' in Microchannels", *Applied Physics Letters*, Vol. 82, No. 3, 2003, pp 364-366

2. Auroux, Pierre-Alain et al., "Micro Total Analysis Systems. 2. Analytical Standard Operations and Applications", Analytical Chemistry, Vol. 74, No. 12, 2002, pp 2637-2652.

3. Bico, Jose et al., "Rise of Liquids and Bubbles in Angular Capillary Tubes", Journal of Colloid and Interface Science, Vol. 247, 2002, pp 162-166.

4. Bico, Jose et al., "Self-Propelling Slugs", J. Fluid Mech., Vol. 467, 2002, pp 101-127.

5. Bringer, et al., "Microfluidic Systems for Chemical Kinetics That Rely on Chaotic Mixing in Droplets", *Phil. Trans. R. Soc. Lond.*, pp. 1-18, 2004.

6. Burns, J.R. et al., "The Intensification of Rapid Reactions in Multiphase Systems Using Slug Flow in Capillaries", Lab on a Chip, Vol. 1, 2001 pp 10-15.

7. Burns, Mark et al., "An Integrated Nanoliter DNA Analysis Device", Science, Vol. 282, 1998, pp 484-487.

8. Chan, Emory M. et al., "Size-Controlled Growth of CdSe Nanocrystals in Microfluidic Reactors", Nano Letters, Vol. 3, No. 2, 2003, pp 199-201.

9. Cho, Sung Kwon et al., "Splitting a Liquid Droplet for Electrowetting-Based Microfluidics", Proceedings of 2001 ASME International Mechanical Engineering Congress and Exposition, 2001, pp 1-7.

10. Duffy, David C. et al., "Rapid Prototyping of Microfluidic Systems in Poly(dimethylsiloxane)", Analytical Chemistry, Vol. 70, 1998, pp 4974-4984.

11. Edel, Joshua B. et al., "Microfluidic Routes to the Controlled Production of Nanoparticles", Chemical Communications, 2002 pp 1136-1137.

12. Eggers, Jens et al., "Coalescence of Liquid Drops", J. Fluid Mech., Vol. 401, 1999, pp 293-310.

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14. Gerdts, et al., "A Synthetic Reaction Network: Chemical Amplification Using Nonequilibrium Autocatalytic Reactions Coupled in Time", *J. Am. Chem. Soc.*, vol. 126, pp. 6327-6331, 2004.

15. Handique, K. et al., "On-Chip Thermopneumatic Pressure for Discrete Drop Pumping", Analytical Chemistry, Vol. 73, 2001, pp 1831-1838.

16. Hansen, Carl L. et al., "A Robust and Scalable Microfluidic Metering Method That Allows Protein Crystal Growth by Free Interface Diffusion", PNAS, Vol. 99, No. 26, 2002, pp 16531-16536.

17. Harries, N. et al., "A Numerical Model for Segmented Flow in a Microreactor", International Journal of Heat and Mass Transfer, Vol. 46, 2003, pp 3313-3322.

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19. Ismagilov, "Integrated Microfluidic Systems", *Angew. Chem. Int. Ed.*, vol. 42, pp. 4130-4132, 2003.

20. Knight, James B., "Hydrodynamic Focusing on a Silicon Chip: Mixing Nanoliters in Microseconds", Physical Review Letters, Vol. 80, No. 17, 1998, pp 3863-3866.

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22. McDonald, J. Cooper et al., "Fabrication of Microfluidic Systems in Poly(dimethylsiloxane)", Electrophoresis, Vol. 21, 2000, pp 27-40.

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24. Pabit, Suzette A. et al., "Laminar-Flow Fluid Mixer for Fast Fluorescence Kinetics Studies", Biophysical Journal, Vol. 83, 2002, pp 2872-2878.

25. Peng, Shuangjiu et al., "Controlled Production of Emulsions Using a Crossflow Membrane", Particle & Particle Systems Characterization, Vol. 15, 1998, pp 21-25.

26. Reyes, Darwin R. et al., "Micro Total Analysis Systems. 1. Introduction, Theory and Technology", Analytic Chemistry, Vol. 74, No. 12, 2002, pp 2623-2636.

27. Shestopalov, et al., "Multi-Step Synthesis of Nanoparticles Performed on Millisecond Time Scale in a Microfluidic Droplet-Based System", *The Royal Society of Chemistry*, vol. 4, pp. 316-321, 2004.

28. Song, et al., "A Microfluidic System for Controlling Reaction Networks in Time", *Angew. Chem. Int. Ed.*, vol. 42, no. 7, pp. 768-772, 2003.

29. Song, et al., "Experimental Test of Scaling of Mixing by Chaotic Advection in Droplets Moving Through Microfluidic Channels", *Applied Physics Letters*, vol. 83, no. 22, pp. 4664-4666, 2003.

30. Song, et al., "Millisecond Kinetics on a Microfluidic Chip Using Nanoliters of Reagents", *J. Am. Chem. Soc.*, vol. 125, pp. 14613-14619, 2003.

31. Song, Helen et al., "A Microfluidic System for Controlling Reaction Networks in Time", Angew. Chem. Int. Ed., Vol. 42, No. 7, 2003, pp 768-772.

32. Stroock, Abraham D. et al., "Chaotic Mixer for Microchannels", Science, Vol. 295, 2002, pp 647-651.

33. Sugiura, Shinji et al., "Effect of Channel Structure on Microchannel Emulsification", Langmuir, Vol. 18, 2002, pp 5708-5712.

34. Takayama et al., "Patterning Cells and Their Environments Using Multiple Laminar Fluid Flows in Capillary Networks", *Proc. Natl. Acad. Sci. USA*, vol. 96, pp. 5545-5548, 1999.

35. Taniguchi, Tomohiro et al., "Chemical Reactions in Microdroplets by Electrostatic Manipulation of Droplets in Liquid Media", Lab on a Chip, Vol. 2, 2002, pp 19-23.

36. Thorsen, et al., "Microfluidic Large-Scale Integration", *Science*, vol. 298, pp. 580-584, 2002.

37. Thorsen, Todd et al., "Dynamic Pattern Formation in a Vesicle-Generating Microfluidic Device", Physical Review Letters, Vol. 86, No. 18, 2001, pp 4163-4166.

38. Tice, "Effects of Viscosity on Droplet Formation and Mixing in Microfluidic Channels", *Analytica Chimica Acta*, vol. 507, pp. 73-77, 2004.

39. Tice, et al., "Formation of Droplets and Mixing in Multiphase Microfluidics at Low Values of the Reynolds and the Capillary Numbers", *Langmuir*, vol. 19, pp. 9127-9133, 2003.

40. Tokeshi, Manabu et al., "Continuous-Flow Chemical Processing on a Microchip by Combining Microunit Operations and a Multiphase Flow Network", Analytical Chemistry, Vol. 74, No. 7, 2002, pp 1565-1571.

41. Umbanhowar, P.B. et al., "Monodisperse Emulsion Generation Via Drop Break Off in a Coflowing Stream", Langmuir, Vol. 16, 2000, pp 347-351.

42. Wang, Hongzhi et al., "Preparation of Titania Particles Utilizing the Insoluble Phase Interface in a Microchannel Reactor", Chemical Communications, 2002, pp 1462-1463.

43. Zhao, Bin et al., "Control and Applications of Immiscible Liquids in Microchannels", J. Am. Chem. Soc., Vol. 124, 2002, pp 5284-5285.

44. Zheng et al., "A Droplet-Based, Composite PDMS/Glass Capillary Microfluidic System for Evaluating Protein Crystallization Conditions by Microbatch and Vapor-Diffusion Methods with On-Chip X-Ray Diffraction", *Angew. Chem.*, pp. 1-4, 2004.

45. Zheng, et al., "Screening of Protein Crystallization Conditions on a Microfluidic Chip Using Nanoliter-Size Droplets", *Journal of the American Chemical Society*, vol. 125, no. 37, pp. 11170-11171, 2003.

This application is a continuation-in-part application of U.S. Serial No. 10/434,970, filed May 9, 2003, and is relied upon for an earlier filing dated under 35 U.S.C. § 120. In accordance with Rule 37 C.F.R. § 1.98(d) and inasmuch as each of

the references cited in this Information Disclosure Statement were previously cited and submitted to the Patent and Trademark Office in the prior application Serial No. 10/434,970, copies of these referenced are not being enclosed herewith.

For the Examiner's convenience, Applicants are enclosing Form PTO-1449. As each of the listed references is in English, no further commentary is believed to be necessary, 37 C.F.R §1.98(a)(3). Applicants respectfully request the Examiner's consideration of the above references and entry thereof into the record of this application.

By submitting this Statement, Applicants are attempting to fully comply with the duty of candor and good faith mandated by 37 C.F.R. §1.56. As such, this Statement is not intended to constitute an admission that any of the enclosed references, or other information referred to therein, constitutes "prior art" or is otherwise "material to patentability," as that phrase is defined in 37 C.F.R. §1.56(a).

Applicants have calculated no fee to be due in connection with the filing of this Statement. However, the Director is authorized to charge any fee deficiency associated with the filing of this Statement to a deposit account, as authorized in the Transmittal accompanying this Statement.

Respectfully submitted,

September 9, 2004
Date

Peter Brunovskis, Ph.D. (Reg. No.52,441)
Agent for Applicants

FORM PTO-1449	SERIAL NO. 10/765,718	CASE NO. 7814/95
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT	FILING DATE Janurary 26, 2004	GROUP ART UNIT 1765
(use several sheets if necessary)	APPLICANT(S): Ismagilov et al.	

REFERENCE DESIGNATION U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER Number-Kind Code (if known)	DATE	NAME	CLASS/ SUBCLASS	FILING DATE
	A1	2003/0061687 A1	4/3/03	Hansen et al.		

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER Number-Kind Code (if known)	DATE	COUNTRY	CLASS/ SUBCLASS	TRANSLATION YES OR NO
	A2	EP 0 912 238 B1	10/10/01	Europe		
	A3	WO 84/02000	5/24/84	WIPO		
	A4	WO 01/12327 A1	2/22/01	WIPO		
	A5	WO 02/23163 A1	3/21/02	WIPO		
	A6	WO 01/64332 A1	9/7/2001	WIPO		

EXAMINER INITIAL		OTHER ART – NON PATENT LITERATURE DOCUMENTS (Include name of author, title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date page(s), volume-issue number(s), publisher, city and/or country where published.
	A7	Anna, Shelley A. et al., "Formation of Dispersions Using 'Flow Focusing' in Microchannels", *Applied Physics Letters*, Vol. 82, No. 3, 2003, pp 364-366.
	A8	Auroux, Pierre-Alain et al., "Micro Total Analysis Systems. 2. Analytical Standard Operations and Applications", Analytical Chemistry, Vol. 74, No. 12, 2002, pp 2637-2652.
	A9	Bico, Jose et al., "Rise of Liquids and Bubbles in Angular Capillary Tubes", Journal of Colloid and Interface Science, Vol. 247, 2002, pp 162-166.
	A10	Bico, Jose et al., "Self-Propelling Slugs", J. Fluid Mech., Vol. 467, 2002, pp 101-127.
	A11	Bringer, et al., "Microfluidic Systems for Chemical Kinetics That Rely on Chaotic Mixing in Droplets", *Phil. Trans. R. Soc. Lond.*, pp. 1-18, 2004.
	A12	Burns, J.R. et al., "The Intensification of Rapid Reactions in Multiphase Systems Using Slug Flow in Capillaries", Lab on a Chip, Vol. 1, 2001 pp 10-15.
	A13	Burns, Mark et al., "An Integrated Nanoliter DNA Analysis Device", Science, Vol. 282, 1998, pp 484-487.
	A14	Chan, Emory M. et al., "Size-Controlled Growth of CdSe Nanocrystals in Microfluidic Reactors", Nano Letters, Vol. 3, No. 2, 2003, pp 199-201.
	A15	Cho, Sung Kwon et al., "Splitting a Liquid Droplet for Electrowetting-Based Microfluidics", Proceedings of 2001 ASME International Mechanical Engineering Congress and Exposition, 2001, pp 1-7.

EXAMINER	DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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(use several sheets if necessary)	APPLICANT(S): **Error! Reference source not found.**	

EXAMINER INITIAL		OTHER ART – NON PATENT LITERATURE DOCUMENTS (Include name of author, title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date page(s), volume-issue number(s), publisher, city and/or country where published.
	A16	Duffy, David C. et al., "Rapid Prototyping of Microfluidic Systems in Poly(dimethylsiloxane)", Analytical Chemistry, Vol. 70, 1998, pp 4974-4984.
	A17	Edel, Joshua B. et al., "Microfluidic Routes to the Controlled Production of Nanoparticles", Chemical Communications, 2002 pp 1136-1137.
	A18	Eggers, Jens et al., "Coalescence of Liquid Drops", J. Fluid Mech., Vol. 401, 1999, pp 293-310.
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	A23	Harries, N. et al., "A Numerical Model for Segmented Flow in a Microreactor", International Journal of Heat and Mass Transfer, Vol. 46, 2003, pp 3313-3322.
	A24	Hosokawa, Kazuo et al., "Handling of Picoliter Liquid Samples in a Poly(dimethylsiloxane)-Based Microfluidic Device", Analytical Chemistry, Vol. 71, No. 20, 1999 pp 4781-4785.
	A25	Ismagilov, "Integrated Microfluidic Systems", *Angew. Chem. Int. Ed.*, vol. 42, pp. 4130-4132, 2003.
	A26	Knight, James B., "Hydrodynamic Focusing on a Silicon Chip: Mixing Nanoliters in Microseconds", Physical Review Letters, Vol. 80, No. 17, 1998, pp 3863-3866.
	A27	Liu, Robin H. et al., "Passive Mixing in a Three-Dimensional Serpentine Microchannel", Journal of Microelectromechanical Systems, Vol. 9, No. 2, 2000, pp 190-197.
	A28	McDonald, J. Cooper et al., "Fabrication of Microfluidic Systems in Poly(dimethylsiloxane)", Electrophoresis, Vol. 21, 2000, pp 27-40.
	A29	Nisisako, Takasi et al., "Droplet Formation in a Microchannel Network", Lab on a Chip, Vol. 2, 2002, pp 24-26.
	A30	Pabit, Suzette A. et al., "Laminar-Flow Fluid Mixer for Fast Fluorescence Kinetics Studies", Biophysical Journal, Vol. 83, 2002, pp 2872-2878.
	A31	Peng, Shuangjiu et al., "Controlled Production of Emulsions Using a Crossflow Membrane", Particle & Particle Systems Characterization, Vol. 15, 1998, pp 21-25.
	A32	Reyes, Darwin R. et al., "Micro Total Analysis Systems. 1. Introduction, Theory and Technology", Analytic Chemistry, Vol. 74, No. 12, 2002, pp 2623-2636.
	A33	Shestopalov, et al., "Multi-Step Synthesis of Nanoparticles Performed on Millisecond Time Scale in a Microfluidic Droplet-Based System", *The Royal Society of Chemistry*, vol. 4, pp. 316-321, 2004.
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	A35	Song, et al., "Experimental Test of Scaling of Mixing by Chaotic Advection in Droplets Moving Through Microfluidic Channels", *Applied Physics Letters*, vol. 83, no. 22, pp. 4664-4666, 2003.
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	A38	Stroock, Abraham D. et al., "Chaotic Mixer for Microchannels", Science, Vol. 295, 2002, pp 647-651.
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	A49	Zhao, Bin et al., "Control and Applications of Immiscible Liquids in Microchannels", J. Am. Chem. Soc., Vol. 124, 2002, pp 5284-5285.
	A50	Zheng et al., "A Droplet-Based, Composite PDMS/Glass Capillary Microfluidic System for Evaluating Protein Crystallization Conditions by Microbatch and Vapor-Diffusion Methods with On-Chip X-Ray Diffraction", *Angew. Chem.*, pp. 1-4, 2004.
	A51	Zheng, et al., "Screening of Protein Crystallization Conditions on a Microfluidic Chip Using Nanoliter-Size Droplets", *Journal of the American Chemical Society*, vol. 125, no. 37, pp. 11170-11171, 2003.

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